

# Replacement Sheet

QA Audit

Severity: High

Title	Abbreviation	Chosen	
<input type="checkbox"/> Coding Style		<input checked="" type="checkbox"/>	
Access of Static Members Through Objects	AOSMTO	<input checked="" type="checkbox"/>	
Assignment To Formal Parameters	ATFP	<input checked="" type="checkbox"/>	
Complex Assignment	CA	<input checked="" type="checkbox"/>	
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>	
Operator '?:' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>	
Provide Incremental In For-Statement or use w...	PIIFS	<input checked="" type="checkbox"/>	
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>	
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>	
Use 'this' Explicitly To Access Class Members	UTETACM	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Critical Errors		<input checked="" type="checkbox"/>	
Avoid Hiding Inherited Attributes	AHIA	<input checked="" type="checkbox"/>	
Avoid Hiding Inherited Static Methods	AHISM	<input checked="" type="checkbox"/>	
Command Query Separation	CQS	<input checked="" type="checkbox"/>	
Hiding of Names	HON	<input checked="" type="checkbox"/>	
Inaccessible Constructor Or Method Matches	ICOMM	<input checked="" type="checkbox"/>	
Multiple Visible Declarations With Same Name	MVDWSN	<input checked="" type="checkbox"/>	
Overriding a Non-Abstract Method With an Ab...	ONAMWAM	<input checked="" type="checkbox"/>	
Overriding a Private Method	OPM	<input checked="" type="checkbox"/>	

AOSMTO - Access Of Static Members Through Objects

Static members should be referenced through class names rather than through objects.

804

FIG. 8A

# Replacement Sheet

806

☐ QA Audit

Title	Abbreviation	Chosen	
Complex Assignment	CA	<input checked="" type="checkbox"/>	▼
Don't use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>	
Operator '?': May Not Be Used	OMNBU	<input checked="" type="checkbox"/>	
Provide Incremental In For-Statement or use w...	PIIFS	<input checked="" type="checkbox"/>	
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>	
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>	▼

Severity:

CA - Complex Assignment

Checks for the occurrence of multiple assignments and assignments to variables within the same expression. Too complex assignments should be avoided since they decrease program readability.

Wrong

```
// compound assignment
i *= j++;
k = j = 10;
l = j += 15;
// nested assignment
i = j++ + 20;
i = (j = 25) + 30;
```

Tip: Break statement into several ones.

Start

Cancel

Help

808

810

FIG. 8B

## 806

FIG. 8C

# Replacement Sheet

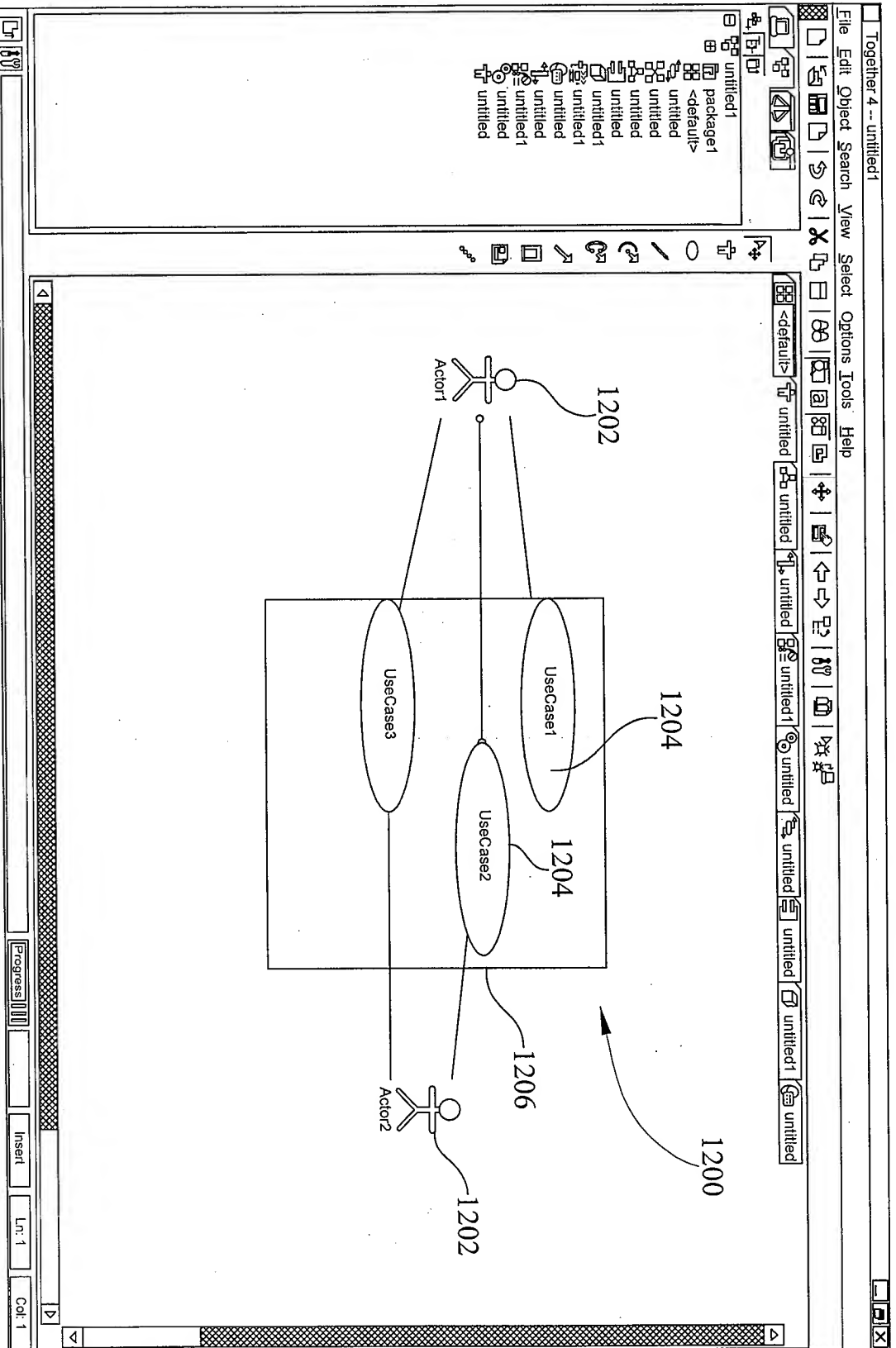


FIG. 12

# Replacement Sheet

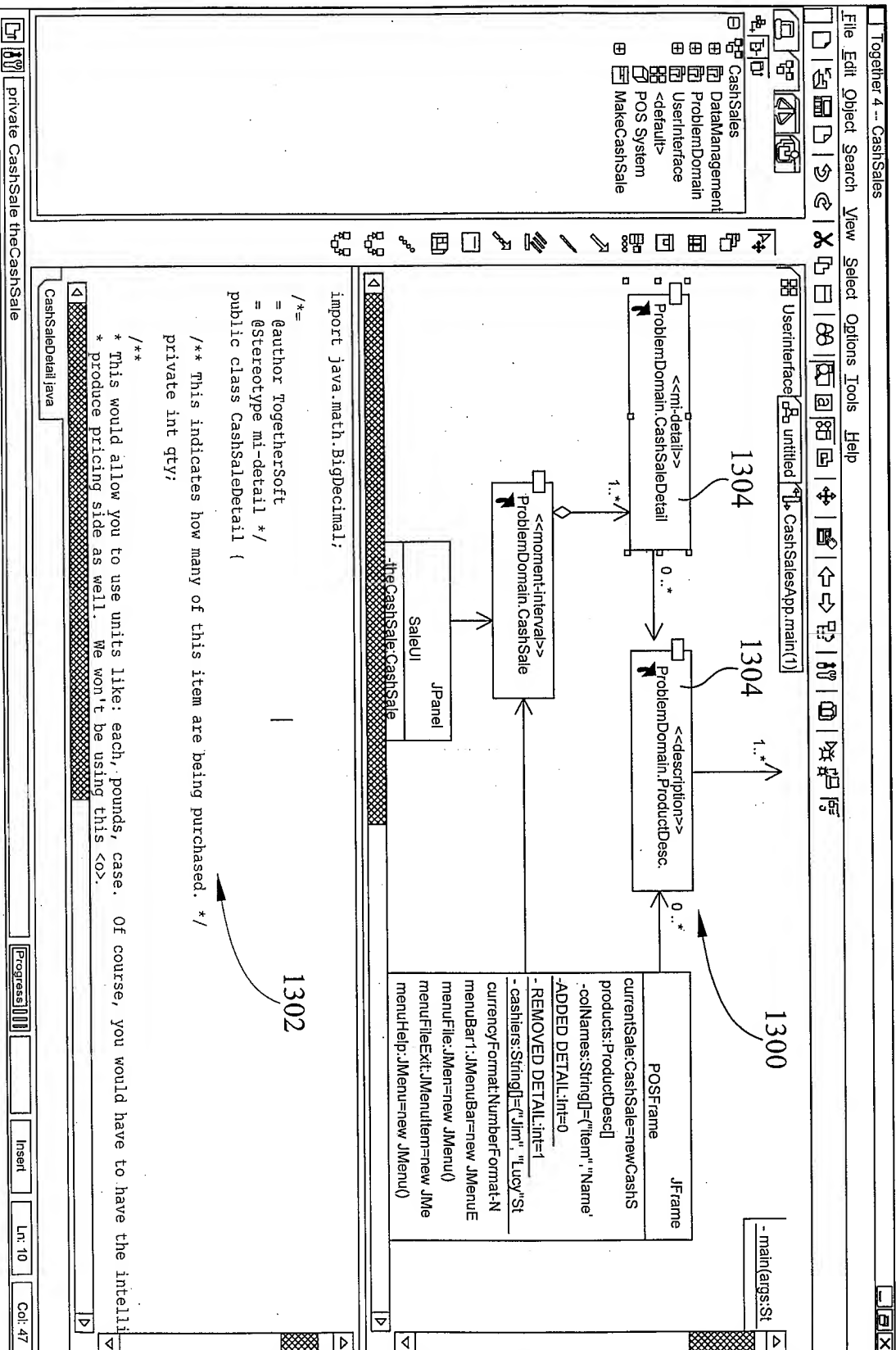


FIG. 13

The diagram illustrates the initial state of a system. It features a package named 'CashSales.App' containing two classes: 'Initial' and 'UIManager'. The 'UIManager' class is marked as 'static'. A sequence diagram shows an actor 'Object1' initiating a process by calling 'main(String[] args)'. This leads to a call to 'getSystemLookAndFeelClassName()' on the 'UIManager' class. The diagram is annotated with numbers 1400, 1402, and 1404, which likely correspond to specific steps or components in the process.

FIG. 14

# Replacement Sheet

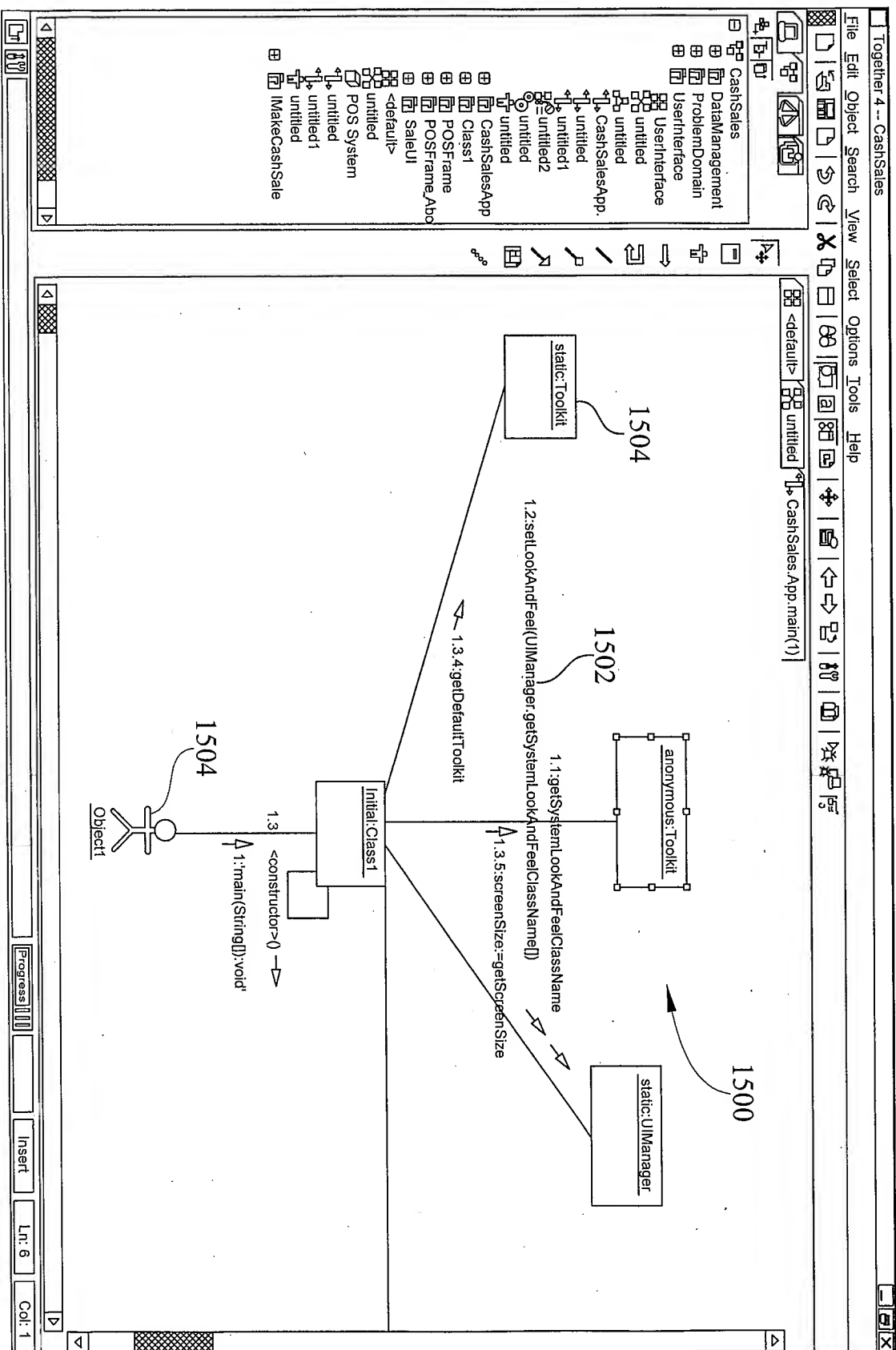


FIG. 15

# Replacement Sheet

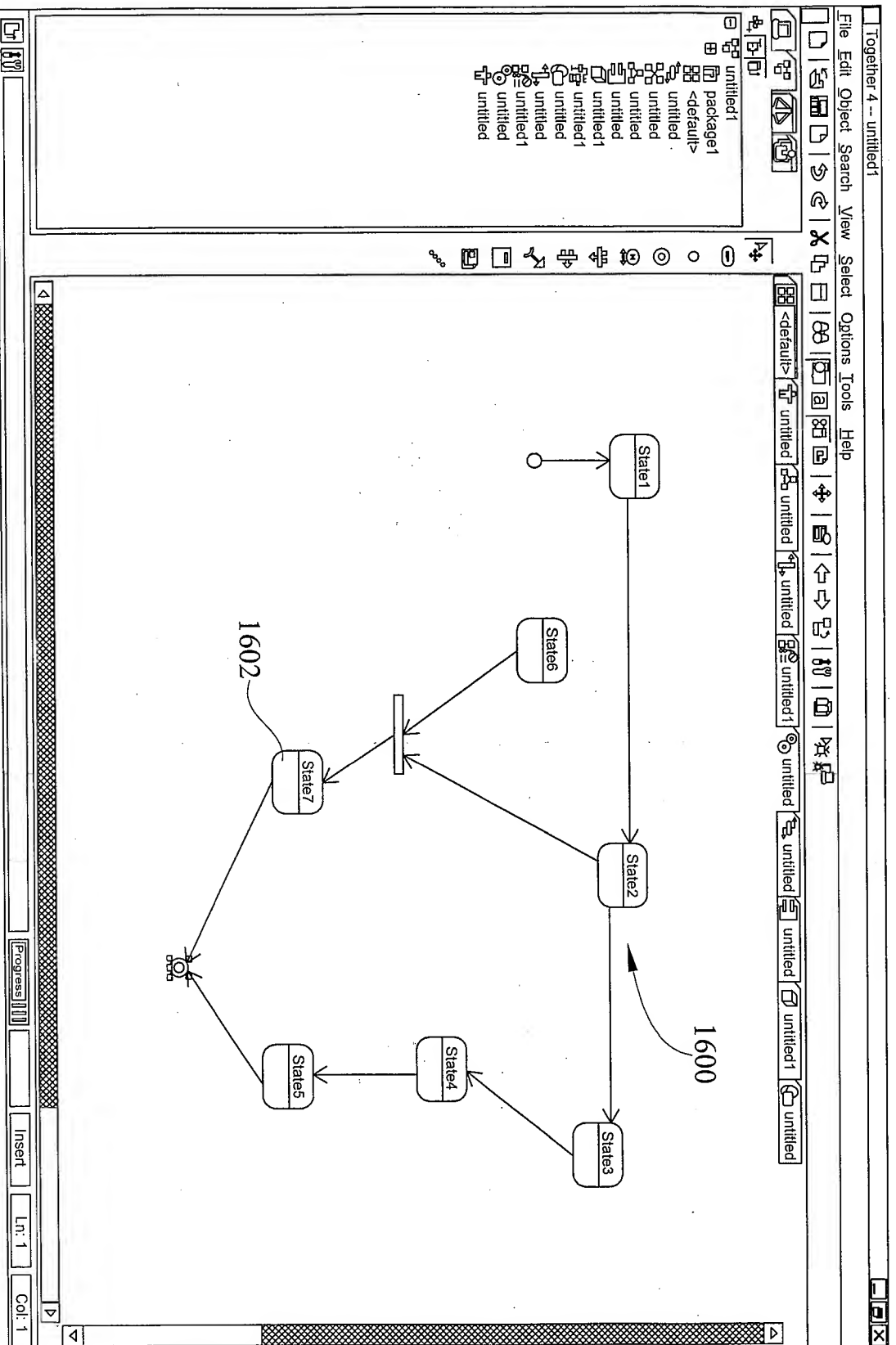


FIG. 16



# Replacement Sheet

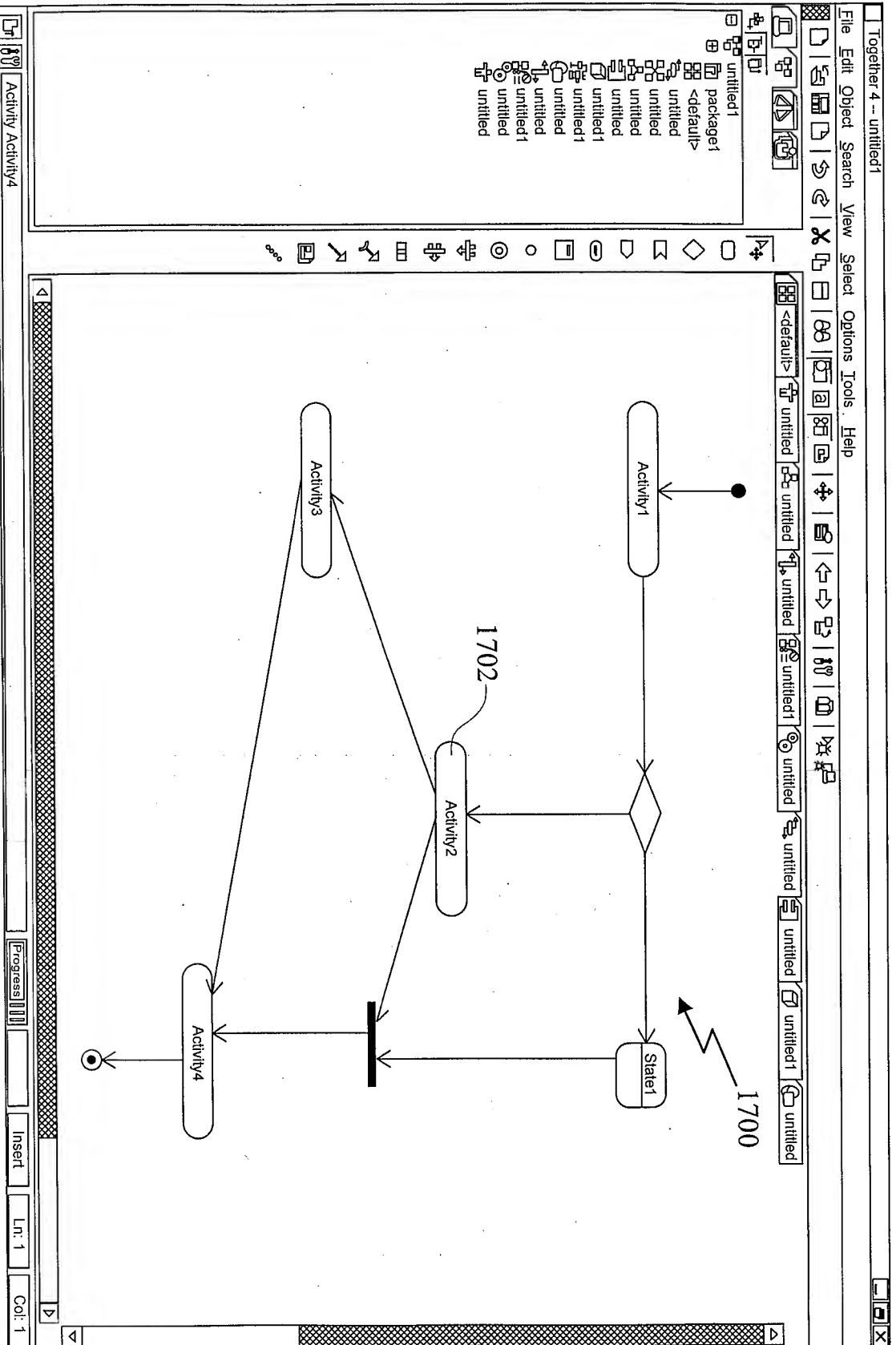


FIG. 17

# Replacement Sheet

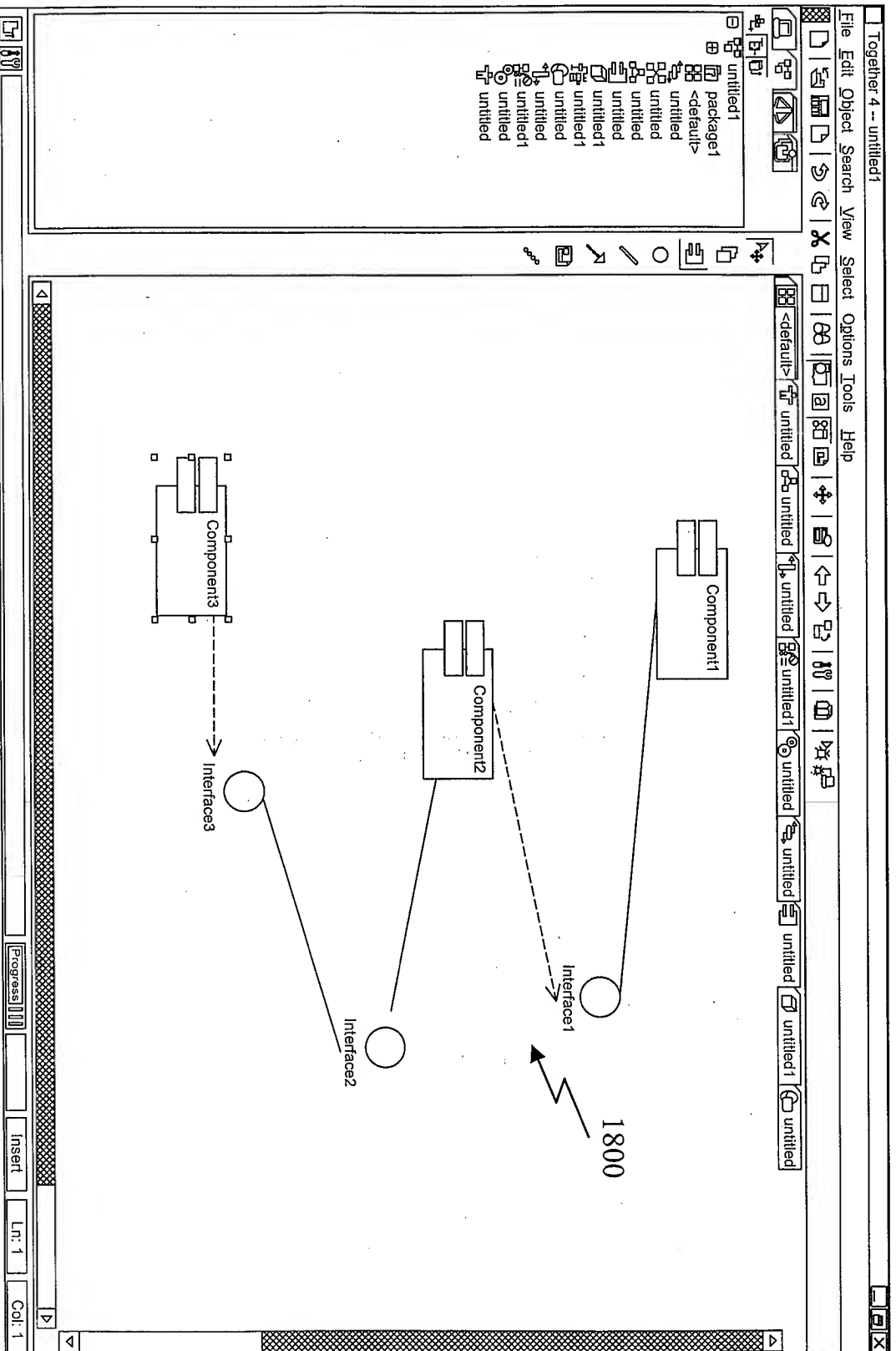


FIG. 18

# Replacement Sheet

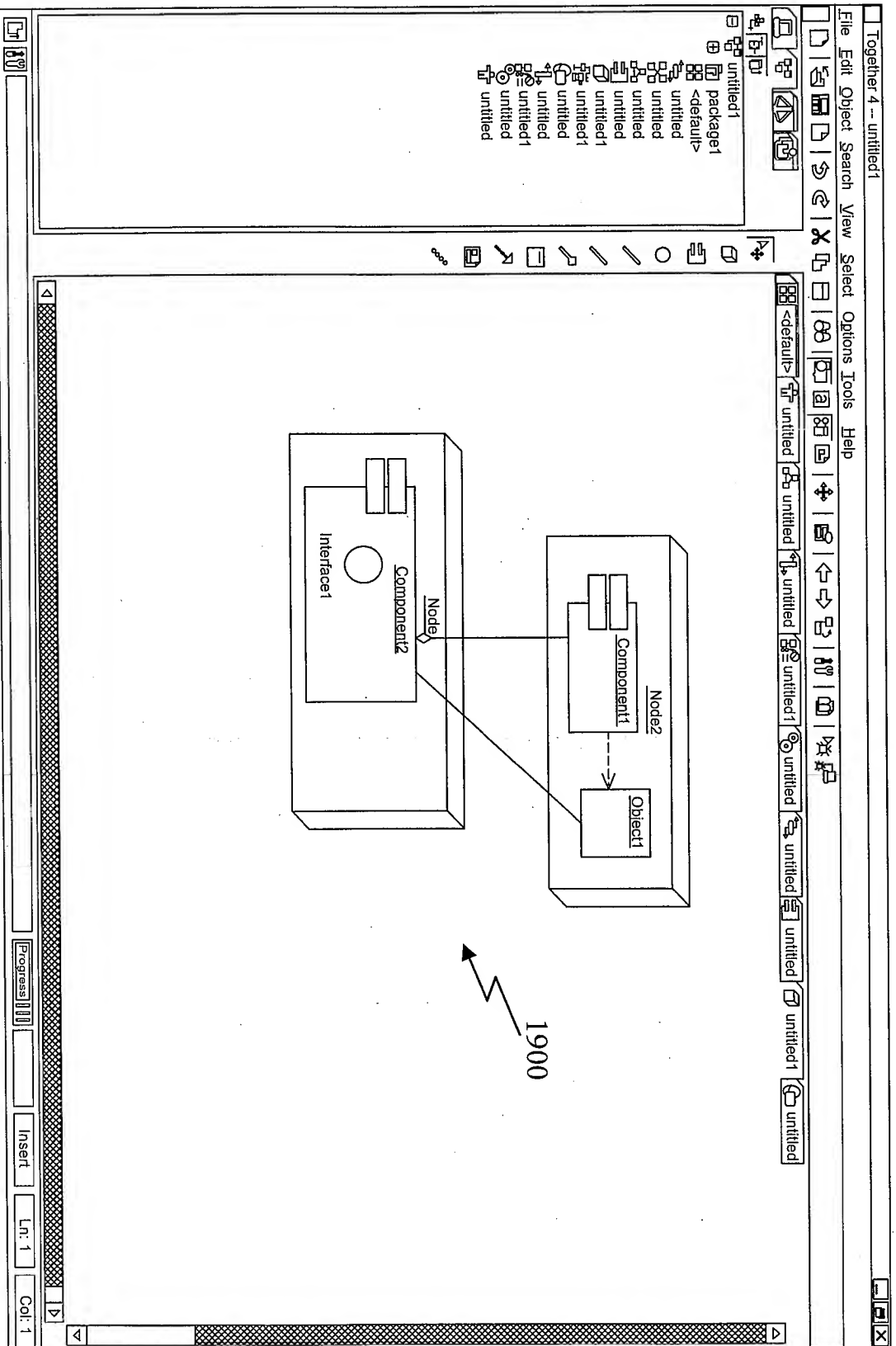


FIG. 19

# Replacement Sheet

2200

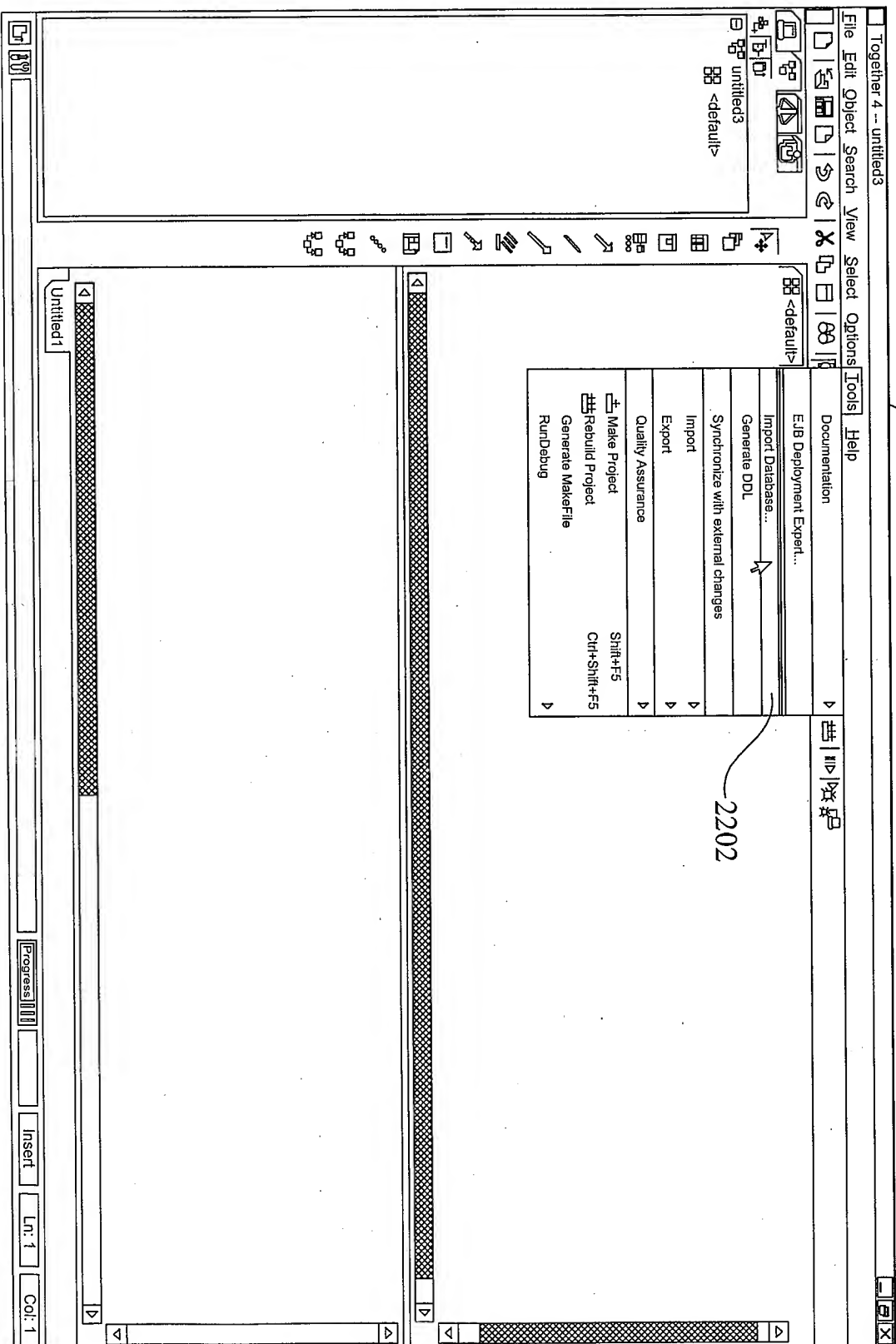


FIG. 22

# Replacement Sheet

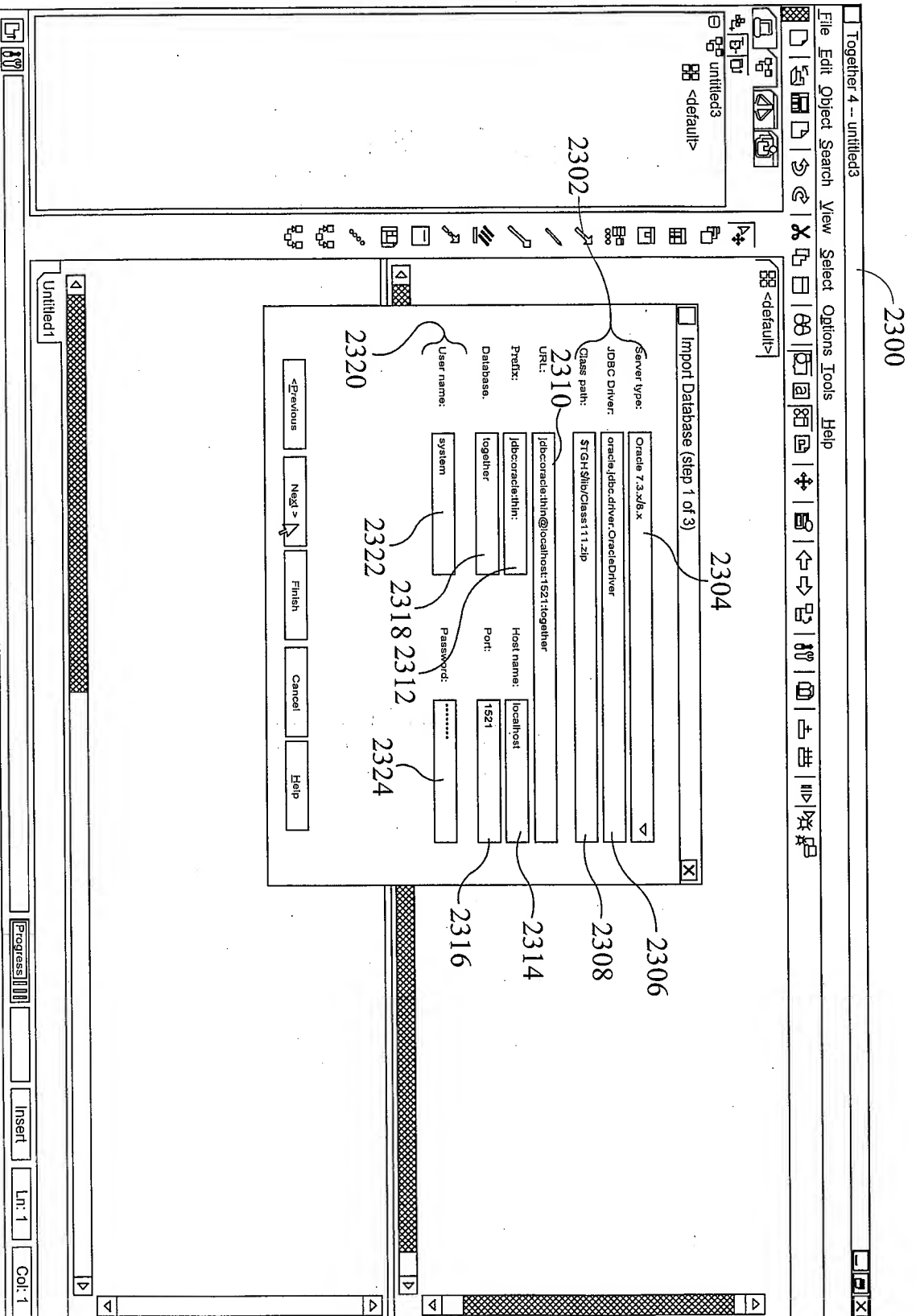


FIG. 23

# Replacement Sheet

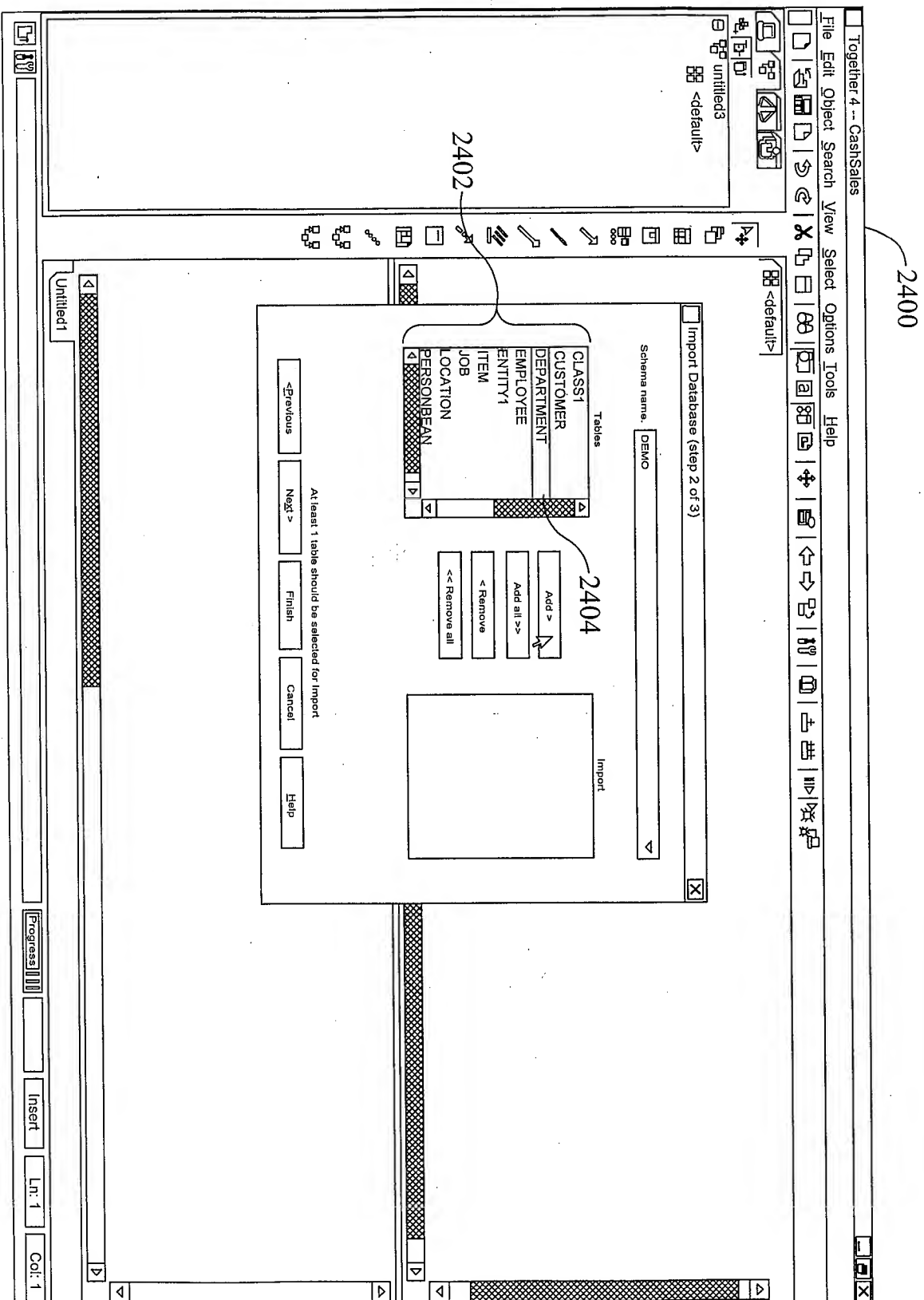


FIG. 24

# Replacement Sheet

2500

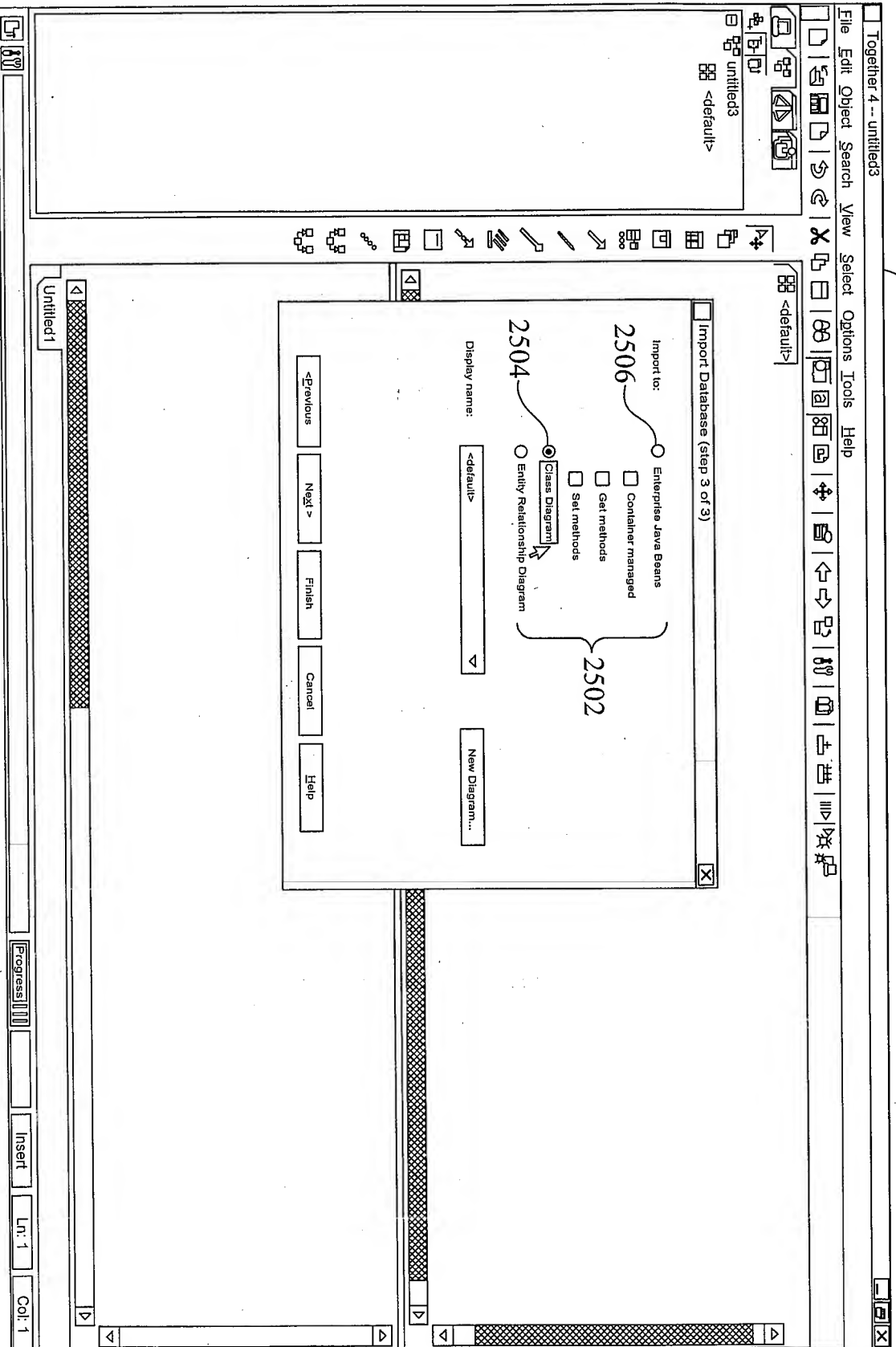


FIG. 25

# Replacement Sheet

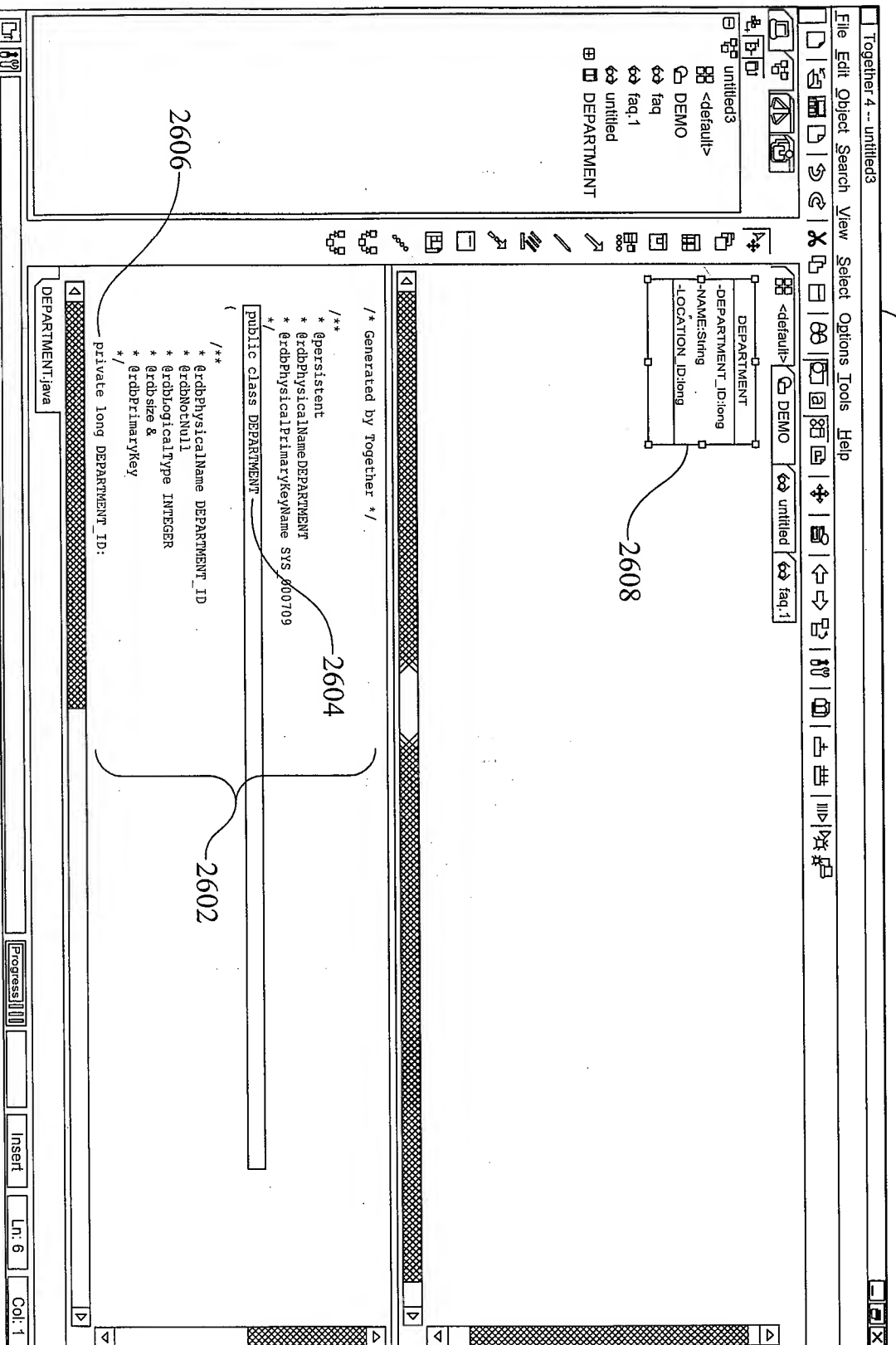


FIG. 26



# Replacement Sheet

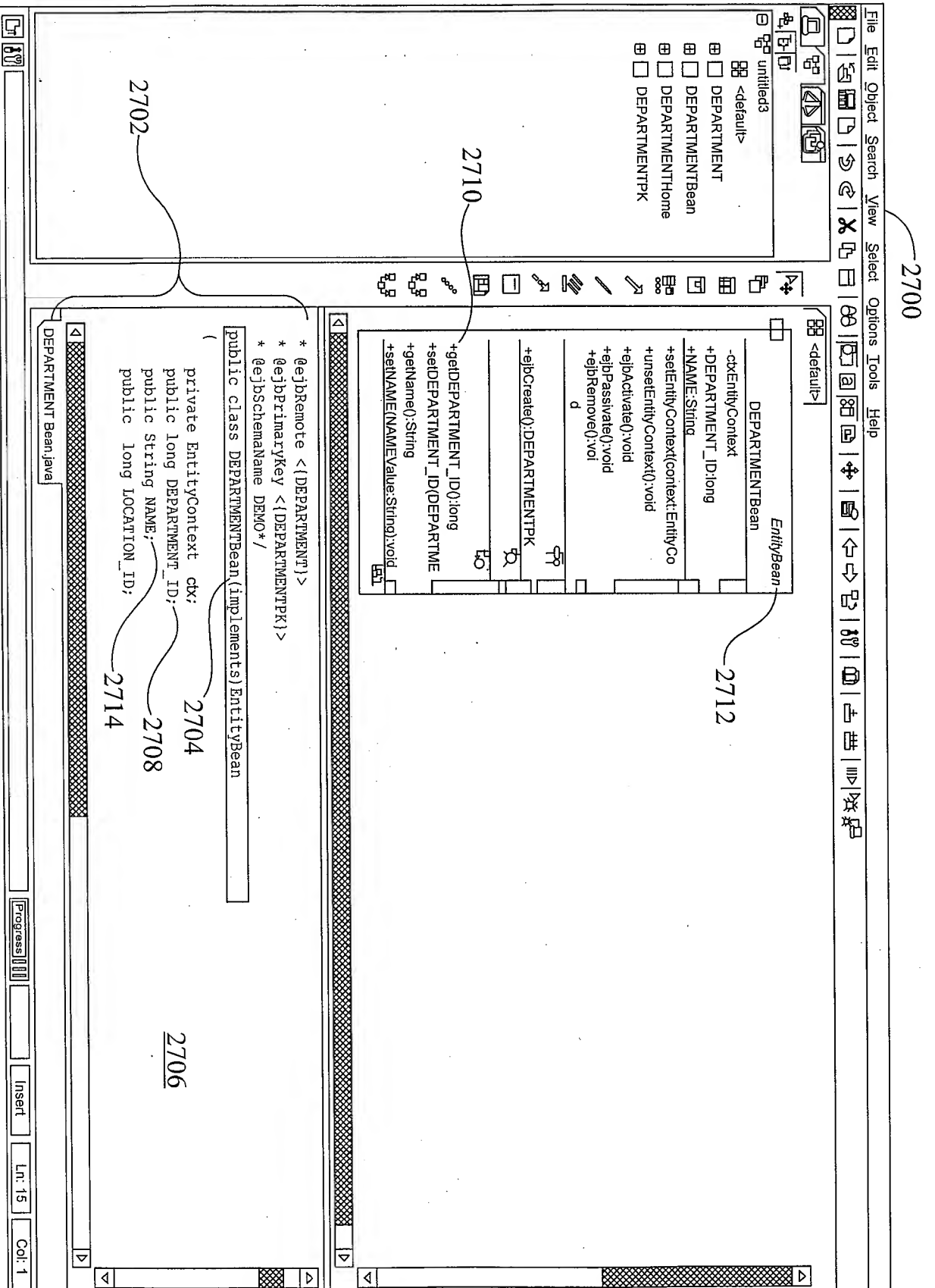


FIG. 27

# Replacement Sheet

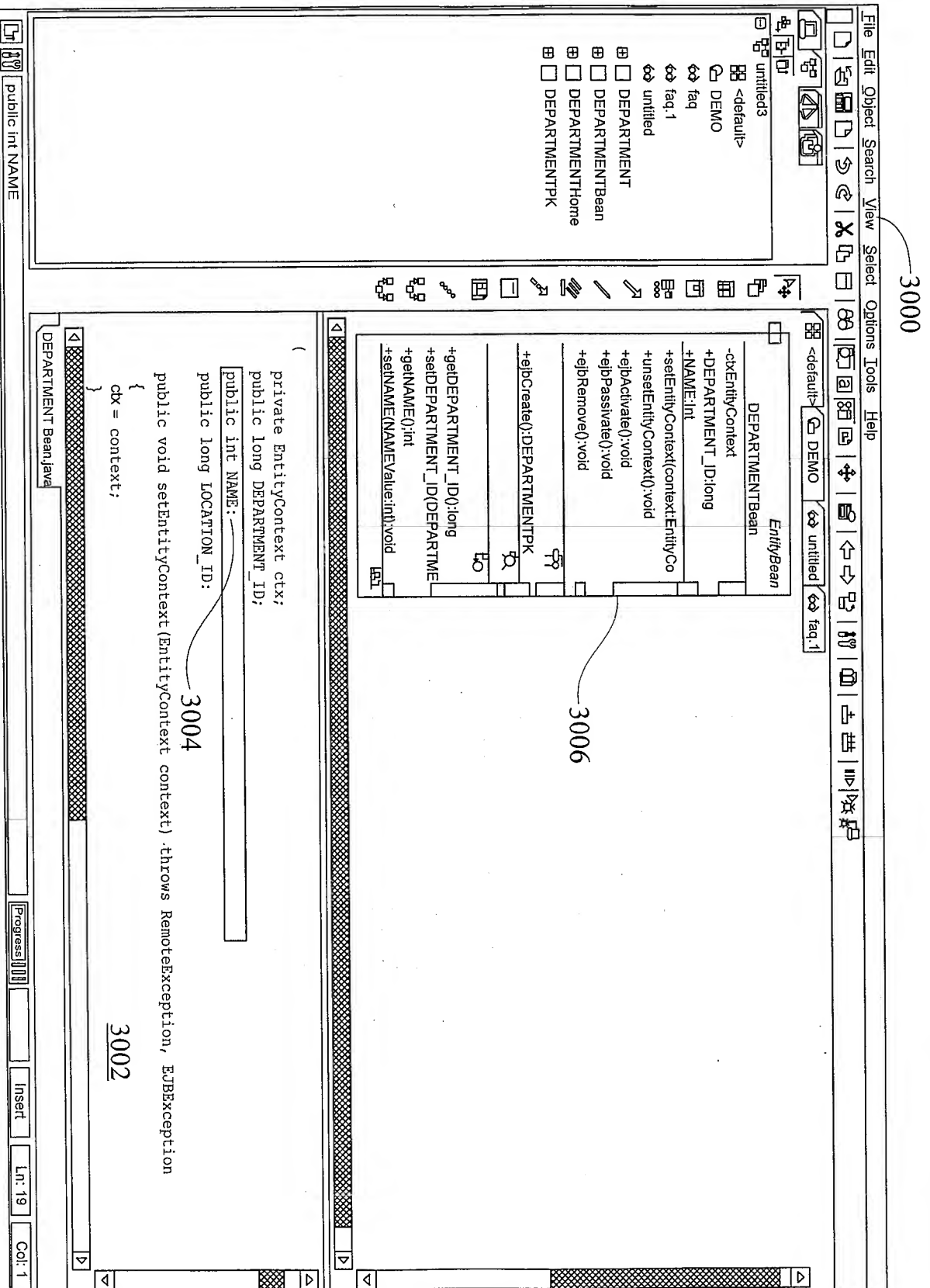


FIG. 30

3200

Together 4 -- untitled3

File Edit Object Search View Select Options Tools Help

Documentation

EJB Deployment Expert...

Import Database...

Generate DDL

Synchronize with external changes

Import

Export

Quality Assurance

Make Project

Rebuild Project

Generate MakeFile

RunDebug

Entity1Bean

EntityBean

-ctx:EntityContext

+field1:int

+setEntityContext(context:EntityCon

+unsetEntityContext():void

+ejbActivate():void

+ejbPassivate():void

+ejbRemove():void

+ejbStore():void

+ejbLoad():void

+ejbCreate():Entity1PK

+ejbPostCreate():void

+ejbFindByPrimaryKey(pk:Entity1PK)

+getField1():int

+selfField1(param:int):void

Entity1Bean.java

```
* @ejbRemote <Entity1>
* @ejbPrimaryKey <Entity1PK>
* @persistent*/
public class Entity1Bean implements EntityBean (
private EntityContext ctx;
public int field1;

public void setEntityContext(EntityContext context) throws RemoteException, EJBException {
    ctx = context;
}
```

Progress

Ln: 15 Col: 1

FIG. 32

## 3300



FIG. 33

# Replacement Sheet

Together 4 -- untitled3

File Edit Object Search View Select Options Tools Help

untitled3  
-default-  
DEMO  
Entity1  
Entity1Bean  
Entity1Home  
Entity1PK

Generate DDL (step 2 of 3)

☒ Generate DDL only  
☐ Generate and run

Server Type: ODBC/Access 97  
JDBC Driver: sun.jdbc.odbc.JdbcOdbcDriver  
Class path:  
URL: jdbc:odbc:NorthWind  
Prefix: jdbc:odbc:  
Database: NorthWind  
User name: Admin  
Host name:  
Port:  
Password:

EntityBean  
-cxEntityContext

<Previous Next > Finish Cancel Help

```
private EntityContext ctx;  
public int field1;  
  
public void setEntityContext (EntityContext context) throws RemoteException, EJBException (  
    ctx = context;
```

Entity1Bean.java

Progress

Ln: 15 Col: 1

3400

3402

3410

3414

3412

3404

3406

3408

FIG. 34

# Replacement Sheet

3500

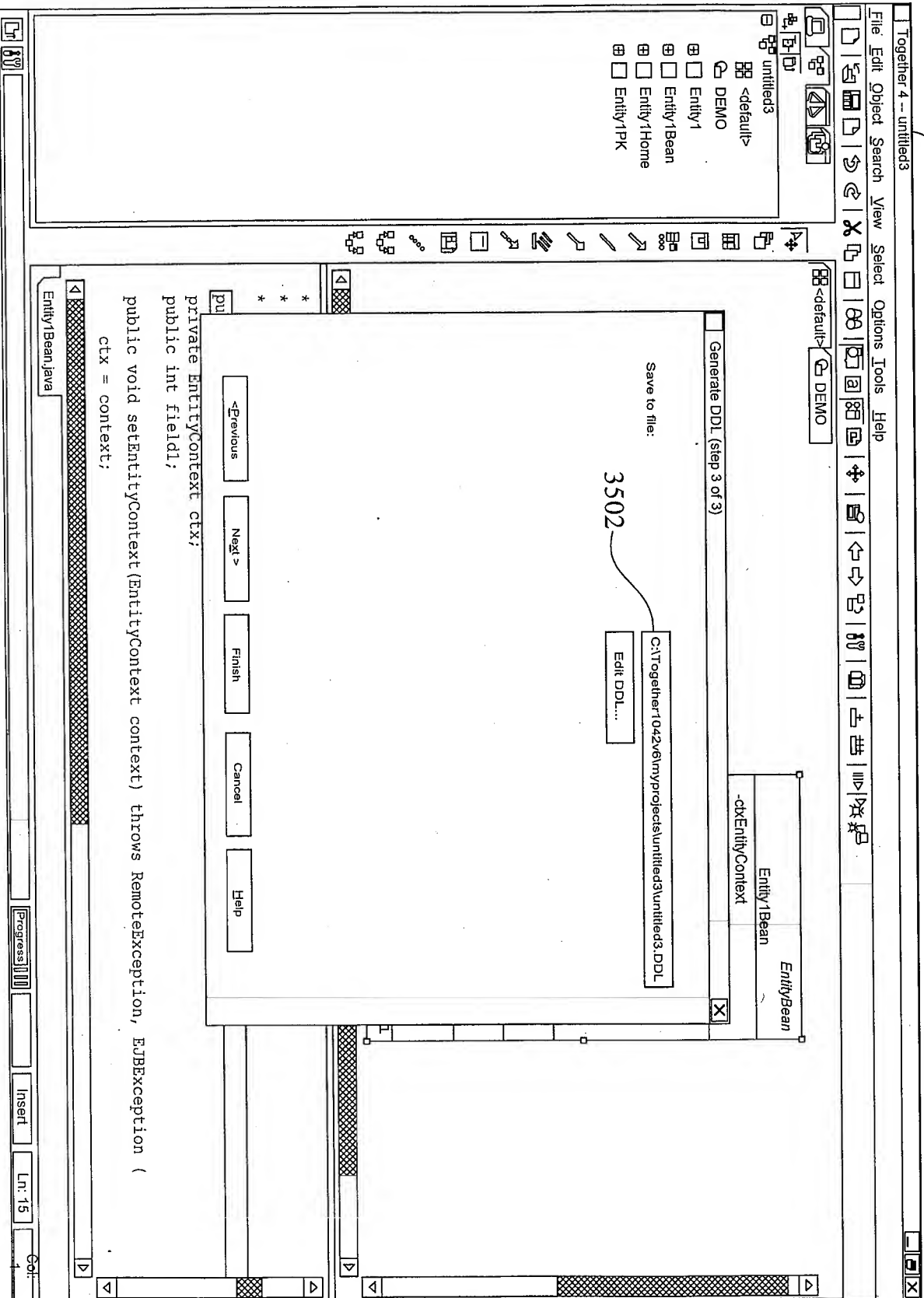


FIG. 35